OMB No. 1660-0008 Expiration Date: November 30, 2022

U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

ELEVATION CERTIFICATE Important: Follow the instructions on pages 1–9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

Box No 223 GLOUCESTER WAY City City State South Carolina As Por a building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) As Por a building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) As Por a building Diagram Number 6 As Por a building Diagram Number 6 As For a building Diagram Number 6 As For a building With a crawispace or enclosure(s) 1144.00 sq ft b) Number of permanent flood openings in the crawispace or enclosure(s) within 1.0 foot above adjacent grade 6 C) Total net area of flood openings in A8 b 1230.00 sq in d) Engineered flood openings? Yes \ No As q ft b) Number of permanent flood openings in A9 b N/A sq ft b) Number of permanent flood openings in A9 b N/A sq in d) Engineered flood openings? Yes \ No SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number HORRY COUNTY B2. County Name B3. State South C B4. Map/Panel Number B4. Map/Panel Number B5. Suffix B6. FIRM Index Date B7. FIRM Panel Effective/ Revised Date AE 12 B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. FIS Profile X FIRM Community Determined Other/Source	MPANY USE	FOR INSURANCE COM		ATION	INFORM	ON A - PROPERTY	SECTI	
Box No. 223 GLOUCESTER WAY City State South Carolina 29566 A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) UNIT 4 CAPE COD COTTAGES @ MARKER 350 A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL A5. Latitude/Longitude: Lat 33D5112 748" Long, 78D39'23.410" Honzontal Datum: NAD 1927 X A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 6 A8. For a building with a crawlspace or enclosure(s) a) Square footage of crawlspace or enclosure(s) b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 6 c) Total net area of flood openings in A8 b 1230.00 sq in d) Engineered flood openings? Yes No A9. For a building with an attached garage a) Square footage of attached garage b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A9 b N/A sq ft b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A9 b N/A sq in d) Engineered flood openings? Yes No SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number HORRY COUNTY B2. County Name B3. Stath Revised Date		Policy Number:						And the same of the same of the
City LITTLE RIVER A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) UNIT 4 CAPE COD COTTAGES @ MARKER 350 A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) A5. Latitude/Longitude: Lat 33D51*12 748" Long. 78D39*23 410" Honzontal Datum: NAD 1927 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 6 A8. For a building with a crawispace or enclosure(s): a) Square footage of crawispace or enclosure(s): b) Number of permanent flood openings in the crawispace or enclosure(s) within 1.0 foot above adjacent grade 6 c) Total net area of flood openings in A8.b 1230.00 sq in d) Engineered flood openings? Yes No A9. For a building with an attached garage a) Square footage of attached garage N/A sq ft b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A9.b N/A sq ft b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A9.b N/A sq in d) Engineered flood openings? Yes No SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number HORRY COUNTY B2. County Name ROWNY 450104 B4. Map/Panel B5. Suffix B6. FIRM Index Date CFIfcitive/ Revised Date CFIfcitive/ Revi	oer.	Company NAIC Number	Route and	Bldg. No.) or F	te, and/or	uding Apt., Unit, Suit	323	Box No.
LITTLE RIVER South Carolina 29566 A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) UNIT 4 CAPE COD COTTAGES @ MARKER 350 A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) A5. Latitude/Longitude: Lat. 33051'12 748" Long. 78D39'23.410" Horizontal Datum: NAD 1927 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 6 A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 6 c) Total net area of flood openings in A8.b 1230.00 sq in d) Engineered flood openings? Yes No A9. For a building with an attached garage N/A sq ft b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A9.b N/A sq ft d) Engineered flood openings? Yes No SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number HORRY COUNTY B2. County Name HORRY COUNTY B3. State Number B4. Map/Panel Number B5 Suffix B6. FIRM Index Date Revised Date Phone Number B5. Suffix B6. FIRM Index Date Revised Date Revised Date Revised Date Date		7IP Code		State			VVAT	
UNIT 4 CAPE COD COTTAGES @ MARKER 350 A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL A5. Latitude/Longitude: Lat 33D5112 748" Long, 78D39'23.410" Horizontal Datum: NAD 1927 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 6 A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) 1144.00 sq ft b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 6 c) Total net area of flood openings? Yes No A9. For a building with an attached garage: a) Square footage of attached garage b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A9.b N/A sq ft d) Engineered flood openings? Yes No SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number HORRY COUNTY B2. County Name HORRY COUNTY B3. Sta South C B4. Map/Panel Number B5. Suffix Date B6. FIRM Index Date B7. FIRM Panel Effective/ Revised Date Date B7. FIRM Panel Effective/ Revised Date B8. Flood Ejevation(s (Zone AO, use Base Fit AS) (Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: FISP Profile FIRM Community Determined Other/Source:								and the second second second second
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) A5. Latitude/Longitude: Lat. 33D51'12 748" Long. 78D39'23.410" Horizontal Datum: NAD 1927 X 1 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 6 A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 6 c) Total net area of flood openings? Yes No A9. For a building with an attached garage: a) Square footage of attached garage N/A sq ft b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A9 b N/A sq in d) Engineered flood openings? Yes No SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number HORRY COUNTY SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B4. Map/Panel Number B5. Suffix B6. FIRM Index Date Flective/ Revised Date Place (Zone AO, use Base Filed Science) AE 12 B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: FIS Profile X FIRM Community Determined Other/Source:			scription, etc.)	Number, Lega	ax Parcel I	Block Numbers, Ta	otion (Lot and	A3. Property Descr
A5. Latitude/Longitude: Lat. 33D51'12 748" Long. 78D39'23.410" Horizontal Datum: NAD 1927 A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 6 A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 6 c) Total net area of flood openings: A8.b 1230.00 sq in d) Engineered flood openings? Yes No A9. For a building with an attached garage a) Square footage of attached garage N/A sq ft b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A9.b N/A sq in d) Engineered flood openings: A9.b No SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number HORRY COUNTY 450104 B4. Map/Panel Number B5 Suffix B6. FIRM Index Date Effective/ Effective/ Revised Date Date Effective/ Revised Date Date Revised Date Date Support						@ MARKER 350	COTTAGES	UNIT 4 CAPE COD
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance. A7. Building Diagram Number 6 A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 6 c) Total net area of flood openings? Yes No A9. For a building with an attached garage a) Square footage of attached garage A) Square footage of attached garage b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A9.b N/A sq in d) Engineered flood openings? Yes No SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number HORRY COUNTY B2. County Name HORRY COUNTY B4. Map/Panel Number B5. Suffix Date PIRM Index Date PIRM Panel Revised Date Date Number Date Date Number Date Date Date Section (Section Cone) B4. Map/Panel Number B5. Suffix B6. FIRM Index Date Date Date Section (Section Cone) B6. FIRM Index Date Date Date Date Date Date Section Section Date Section (Section Cone) B7. FIRM Panel Section B8. Flood B9. Base Flood Elevation (Section Cone) B8. B1. Date Date Date Date Date Date Date Date			RESIDENTIA	Accessory, etc	Addition,	al, Non-Residential,	g., Residenti	A4. Building Use (e
A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s): b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 6 c) Total net area of flood openings: d) Engineered flood openings?	NAD 1983	im: NAD 1927 🗵 NA	Horizontal Da	D39'23.410"	Long. 78	051'12 748"	de: Lat. 33l	A5. Latitude/Longito
A8. For a building with a crawlspace or enclosure(s): a) Square footage of crawlspace or enclosure(s) b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 6 c) Total net area of flood openings in A8.b 1230.00 sq in d) Engineered flood openings?		rance.	obtain flood in	te is being use	e Certifica	s of the building if the	photograph	A6. Attach at least
a) Square footage of crawlspace or enclosure(s) b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 6 c) Total net area of flood openings in A8.b 1230.00 sq in d) Engineered flood openings? Yes No A9. For a building with an attached garage: a) Square footage of attached garage b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A9.b N/A sq in d) Engineered flood openings? Yes No SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number HORRY COUNTY 450104 B4. Map/Panel Number Number B5. Suffix Date PFLOOD INSURANCE RATE MAP (FIRM) INFORMATION B7. FIRM Panel Effective/Revised Date Number B8. Flood Zone(s) Zone(s) Zone(s) Zone(s) 12 B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: FIS Profile FIRM Community Determined Other/Source:						6	n Number	A7. Building Diagra
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 6 c) Total net area of flood openings in A8 b						ace or enclosure(s):	ith a crawlsp	A8. For a building v
c) Total net area of flood openings in A8 b d) Engineered flood openings?			0 sq ft	11)	pace or enclosure(s)	ge of crawls	a) Square foot
d) Engineered flood openings?		e adjacent grade 6	thin 1.0 foot ab	or enclosure(rawispace	od openings in the cr	rmanent floo	b) Number of p
A9. For a building with an attached garage a) Square footage of attached garage b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A9.b d) Engineered flood openings?								
A9. For a building with an attached garage a) Square footage of attached garage b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A9.b d) Engineered flood openings?					No	is? X Yes 1	lood opening	d) Engineered
a) Square footage of attached garage								
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A c) Total net area of flood openings in A9.b N/A sq in d) Engineered flood openings? Yes No SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number HORRY COUNTY South C B4. Map/Panel Number B5. Suffix Date Number Date Date South C B5. Suffix D9-17-2003 D8-23-1999 AE 12 B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: □ FIS Profile ▼ FIRM □ Community Determined □ Other/Source:				N/A 6				1.00
c) Total net area of flood openings in A9.b N/A sq in d) Engineered flood openings? Yes No. SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION							0	2 8
SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION B1. NFIP Community Name & Community Number HORRY COUNTY 450104 B4. Map/Panel Number B5. Suffix Date B6. FIRM Index Date B7. FIRM Panel Effective/ Revised Date B8. Flood Zone(s) B9. Base Flood Elevation(s (Zone AO, use Base Flood Elevation) (South County) B1. NFIP Community Name & Community Number B3. Star South County Name B4. Map/Panel Effective/ Revised Date B5. Suffix Date B6. FIRM Index Date B7. FIRM Panel Effective/ Revised Date B8. Flood Zone(s) B9. Base Flood Elevation(s (Zone AO, use Base Flood Elevation) (South County) B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9: B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:	ē.	t grade N/A	ot above adjace	arage within 1.	ttached ga	od openings in the at	ermanent flo	b) Number of p
B1. NFIP Community Name & Community Number HORRY COUNTY 450104 B4. Map/Panel Number B5. Suffix Date B6. FIRM Index Date B7. FIRM Panel Effective/ Revised Date B8. Flood Zone(s) B9. Base Flood Elevation(s) (Zone AO, use Base Flood Elevation (BFE) data or base flood depth entered in Item B9: FIS Profile FIRM Community Determined Other/Source:				N/A sq ii		enings in A9.b	a of flood op	c) Total net are
B1. NFIP Community Name & Community Number HORRY COUNTY 450104 B4. Map/Panel Number B5. Suffix Date B6. FIRM Index Date B7. FIRM Panel Effective/ Revised Date B8. Flood Zone(s) B9. Base Flood Elevation(s (Zone AO, use Base Flood Elevation (South COUNTY) B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. FIS Profile X FIRM Community Determined Other/Source					No	s? Yes	lood opening	d) Engineered
HORRY COUNTY 450104 B4. Map/Panel Number B5. Suffix Date B6. FIRM Index Date B7. FIRM Panel Effective/ Revised Date B8. Flood Zone(s) B9. Base Flood Elevation(s (Zone AO, use Base Flood Elevation (South CONE)) B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. FIS Profile FIRM Community Determined Other/Source		MATION	(FIRM) INFOR	NCE RATE N	INSURA	CTION B - FLOOD	SE	
Number Date Effective/ Revised Date D		B3. State South Car				ommunity Number		
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. FIS Profile FIRM Community Determined Other/Source:	ood Depth)	Base Flood Elevation(s) (Zone AO, use Base Floo	0 000000 E	ective/	Effe	The same of the sa	B5 Suffix	Charles As Ye
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source.			11	999	08-23-1	09-17-2003	н	45051C0581
B11. Indicate elevation datum used for BFE in Item B9 X NGVD 1929 NAVD 1988 Other/Source:		em B9: Other/Source:		Other/Sour	ermined	Community Dete	⊠ FIRM	☐ FIS Profile
	T Van El Na	-11-d A (ODA)2 []	- Au					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)?	」Yes ⊠ No	otected Area (OPA)/	a or Otherwise	stem (CBRS)	sources Sy	Coastal Barrier Res	located in a	B12. Is the buildin
Designation Date: N/A CBRS OPA				OPA	CBRS		ate: N/A	Designation

118221

128557 7.4-2021 21112022

ELEVATION CERTIFICATE

Ę

OMB No. 1660-0008 Expiration Date: November 30, 2022

			Expiration Date. November 50, 2022
IMPORTANT: In these spaces, copy the correspo	nding information from Sec	tion A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, 232 GLOUCESTER WAY	and/or Bldg. No.) or P.O. Rout	e and Box No.	Policy Number:
City		Code	Company NAIC Number
LITTLE RIVER	South Carolina 2956	66	
SECTION C - BUILDIN	IG ELEVATION INFORMAT	ION (SURVEY RI	EQUIRED)
C1. Building elevations are based on: Cons *A new Elevation Certificate will be required w	· -	ling Under Construng is complete.	uction* X Finished Construction
C2. Elevations – Zones A1–A30, AE, AH, A (with Complete Items C2.a–h below according to the	BFE), VE, V1–V30, V (with BF ie building diagram specified i	FE), AR, AR/A, AR/ n Item A7, In Puert	AE, AR/A1-A30, AR/AH, AR/AO. o Rico only, enter meters.
Benchmark Utilized: SC VRS	Vertical Datum:	NGVD 1929	
Indicate elevation datum used for the elevatio	ns in items a) through h) below	v.	
☑ NGVD 1929 ☐ NAVD 1988 ☐ 0	Other/Source:	•	
Datum used for building elevations must be the	e same as that used for the B	FE.	Check the measurement used.
a). The of hottom floor (including honoment			10.3 X feet meters
a) Top of bottom floor (including basement, c	rawispace, or enclosure iloor)	-	 = =
b) Top of the next higher floor			20.7 🔀 feet 🗌 meters
 c) Bottom of the lowest horizontal structural r 	nember (V Zones only)		N/A feet meters
d) Attached garage (top of slab)			N/A feet meters
 e) Lowest elevation of machinery or equipment (Describe type of equipment and location) 	ent servicing the building in Comments)		14.7 X feet meters
f) Lowest adjacent (finished) grade next to b	uilding (LAG)		9.2 X feet meters
g) Highest adjacent (finished) grade next to t	ouilding (HAG)		9.8 ✓ feet ✓ meters
h) Lowest adjacent grade at lowest elevation structural support	•		N/A feet meters
	YOR, ENGINEER, OR ARC	VUITECT CEDTIE	ICATION
This certification is to be signed and sealed by a la la certify that the information on this Certificate represent may be punishable by fine or imprison the Were latitude and longitude in Section A provided	and surveyor, engineer, or arc esents my best efforts to inter nent under 18 U.S. Code, Sec	hitect authorized b pret the data availation 1001.	y law to certify elevation information.
Certifier's Name	License Number		
JACQUES J. BONNETT	21431		MILLIAN.
Title			- NICOLINA
PLS			SCAP Lacadi
Company Name		-	
SITE SURVEYING, LLC			Exig Seal, is a
Address			Town Rord OF
111 WHITE OAK FOREST PLACE			
City CONWAY	State South Carolina	ZIP Code 29527	ACQUE IN
Signature M	Date 07-07-2021	Telephone (843) 319-8169	Ext.
Copy all pages of this Elevation Certificate and all at	tachments for (1) community of	fficial (2) insurance	agent/company and (3) building owner
Comments (including type of equipment and locat LOWEST MACHINERY WILL BE AC UNIT. FLOG SHEET. THE NET ARE OF OPENINGS IS 630 S TO MATCH ENGINEERED RELIEF AREA OF OF GARAGE ON FOUNDATION AND FRAMING CO	ion, per C2(e), if applicable) OD VENTS ARE ENGINEERE QUARE INCHES, THE COUN PENINGS, THIS UNIT IS NOT	ED FOR 205 SQ FT NTY MAKES ME P TON PILES, BUT I	T PER VENT SEE ATTACHED UT SQUARE INCHES OF OPENING BOTTOM FLOOR IS AN ENCLOSED

118661 7-8-2021 7-8-2021

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the correspon	nding information fron	n Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, a 232 GLOUCESTER WAY	and/or Bldg, No.) or P.O.	. Route and Box No.	Policy Number:
City	State	ZIP Code	Company NAIC Number
LITTLE RIVER	South Carolina	29566	DECURPED.
SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)			
For Zones AO and A (without BFE), complete Items complete Sections A, B,and C. For Items E1–E4, us enter meters.	E1–E5. If the Certificate e natural grade, if availa	is intended to support a ble. Check the measure	LOMA or LOMR-F request, ment used. In Puerto Rico only,
E1. Provide elevation information for the following a the highest adjacent grade (HAG) and the lower			r the elevation is above or below
a) Top of bottom floor (including basement, crawlspace, or enclosure) is			s 🔲 above or 🔲 below the HAG.
 b) Top of bottom floor (including basement, crawlspace, or enclosure) is 		feet	s 🗌 above or 🗌 below the ŁAG.
E2. For Building Diagrams 6–9 with permanent floo the next higher floor (elevation C2.b in the diagrams) of the building is	d openings provided in \$	Section A Items 8 and/or	
E3. Attached garage (top of slab) is		feet	rs above or below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is			rs 🔲 above or 🔲 below the HAG.
E5. Zone AO only: If no flood depth number is avail floodplain management ordinance?	able, is the top of the bo	ottom floor elevated in ac The local official must	cordance with the community's certify this information in Section G.
SECTION F - PROPERTY O	WNER (OR OWNER'S	REPRESENTATIVE) CI	ERTIFICATION
The property owner or owner's authorized represent community-issued BFE) or Zone AO must sign here	tative who completes Se . The statements in Sec	ections A, B, and E for Zo tions A, B, and E are co	one A (without a FEMA-issued or rect to the best of my knowledge.
Property Owner or Owner's Authorized Representat	ive's Name		
Address	City	Si	ate ZIP Code
Signature	Date	Te	elephone
Comments			
			Check here if attachments.

118221 7-8-2021 ZMLEV22

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corr	esponding information from S	Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, S 232 GLOUCESTER WAY	uite, and/or Bldg. No.) or P.O. R	loute and Box No.	Policy Number:
City LITTLE RIVER		IP Code 9566	Company NAIC Number
SECTI	ON G - COMMUNITY INFORMA	ATION (OPTIONAL)	
The local official who is authorized by law or o Sections A, B, C (or E), and G of this Elevation used in Items G8–G10. In Puerto Rico only, en	n Certificate. Complete the appli		
G1. The information in Section C was tal engineer, or architect who is authorited data in the Comments area below.)	ken from other documentation the zed by law to certify elevation in:	at has been signed an formation. (Indicate the	d sealed by a licensed surveyor, e source and date of the elevation
G2. A community official completed Sec or Zone AO.	tion E for a building located in Zo	one A (without a FEMA	N-issued or community-issued BFE)
G3. The following information (Items G4	-G10) is provided for community	/ floodplain manageme	ent purposes.
G4. Permit Number	G5. Date Permit Issued		Date Certificate of compliance/Occupancy Issued
G7. This permit has been issued for:	☐ New Construction ☐ Substa	ntial Improvement	
G8. Elevation of as-built lowest floor (includir of the building:	ng basement) —————	feet	meters Datum
G9. BFE or (in Zone AO) depth of flooding at	the building site:	feet	meters Datum
G10. Community's design flood elevation:		feet	meters Datum
Local Official's Name	Title		
Community Name	Telep	hone	
Signature	Date	`	
Comments (including type of equipment and le	ocation, per C2(e), if applicable)		
			Check here if attachments.

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

See Instructions for Item A6.

OMB No. 1660-0008 Expiration Date: November 30, 2022

IMPORTANT: In these spaces, co	FOR INSURANCE COMPANY USE		
Building Street Address (including 232 GLOUCESTER WAY	Policy Number:		
City	State	ZIP Code	Company NAIC Number
LITTLE RIVER	South Carolina	29566	

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One Caption BACK

Clear Photo One



Photo Two Caption FRONT

Clear Photo Two

11822/ +28557 7-8-2024 7-Mcev.22

Certification of Engineered Flood Openings

In accordance with the Code of Federal Regulations for the National Flood Insurance Program

I hereby certify that the Crawl Space Door Systems flood vents 816CS, 1220CS, 1232CS, 1616CS, 1624CS, 1632CS, 2032CS, 2424CS, and 2436CS are designed are designed in accordance with the requirements of the Code of Federal Regulations for the National Flood Insurance Program (NFIP) to provide automatic equalization of hydrostatic flood forces by allowing for the entry and exit of floodwaters, when properly installed and sized as set forth below. Vent opening measurements were measured and certified by Mr. Christopher Mark Loney, Virginia P.E. NO. 029000. Detailed calculations were prepared as outlined in "Review of certification of Engineered Flood Openings," prepared by Dr. Georg Reichard, Associate Professor of Building Construction, Virginia Tech (available upon request from Crawl Space Door Systems, Inc. billy@crawlspacedoors.com)

Design Characteristics

Section 2.6.2.2 of ASCE/SEI 24-05 provides an equation to determine the required <u>net area</u> of engineered openings (A_o) for a given <u>enclosed area</u> (A_e). This equation is based on the hydraulic formula for the flow rate across sharp edged orifices. I have utilized this equation to calculate 1) the restricted flow rate through the main frame opening in case the louver is blown out during a flood event; 2) the flow rate through the individual openings between louver blades; and 3) the flow rate through projected openings between louver blades following hydraulic short-tube theory. The maximum total enclosed area (A_e) that can be serviced by a single vent has then been determined by utilizing the lowest flow rate of the three assessed scenarios for each vent and is listed in Table 1.

These values are based on the following assumptions:

- In absence of reliable data, the rates of rise and fall have been assumed at a minimum rate of 5 feet/hour;
- The (maximum) difference between the exterior and interior floodwater levels shall not exceed 1 foot during base flood conditions:
- A factor of safety of 5 has been assumed, which is consistent with design practices related to protection of life and property;
- ullet The net area of openings (A₀) as provided by the manufacturer.

Installation Rec	mirements and	Limitations
mstanation net	lan emeno ana	Lilliaauviis

This certification will be voided if the following installation requirements and limitations are not enforced:

- There shall be a minimum of two openings on different sides of each enclosed area subject to flooding;
- The bottom of all openings shall be no higher than one foot above the higher of the interior or exterior grade that is immediately under each opening;

Identification of the Building and Installed Flood Vents (By Others)
The flood vent models marked in Table 1°) are being installed at the following building:

- No temporary (e.g. during cold weather) or permanent solid cover may be placed into or over the flood vent that would block the automatic entry or exit of floodwaters at any time;
- Where data or analyses indicate more rapid rates of rise and fall, the required number of openings shall be increased to account
 for those different conditions. The number or size of the openings may be decreased if data or analyses indicate rates of rise and
 fall are less than 5 feet per hour.

*)	Model	HxW [in]	A _o [in²]	A _e [ft²]
Ø	816CS	8 x 16	105	205
	1220CS	12 x 20	235	500
	1232CS	12 x 32	305	645
	1616CS	16 x 16	180	395
	1624CS	16 x 24	310	670
	1632CS	16 x 32	405	835
	2032CS	20 x 32	630	1240
	2424CS	24 x 24	570	1230
	2436CS	24 x 36	850	1765

Table 1 Maximum total enclosed area (A_e) that can be serviced by each individual model based on the given net area of engineered openings (A_o)

Certifyi	ng Design Professional	TH CARO
Name	Frederick Allen House	Title President HOUSE HOUSE
Company	House Engineering P.C.	ENGINEERING, OF P.C.
Address	PO Box 466, Kitty Hawk, NC 27949	License No. 26841 No. 26841 No. 26841
License	South Carolina	License No. 26841 OF AUTHORITHM
Signature	" Red Albores P.E.	Date: 11/17/2017

Ver. 2.0

Building Address